

1648

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1600

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 02/04/2002

PATENT APPLICATION: US/09/500,904A

TIME: 12:44:38

Input Set : A:\OM161CI1.txt

Output Set: N:\CRF3\02042002\I500904A.raw

P.S

3 <110> APPLICANT: Harley, John B.
 4 James, Judith A.
 5 Kaufman, Kenneth M.
 7 <120> TITLE OF INVENTION: Diagnostics and Therapy of Epstein-Barr Virus in
 8 Autoimmune Disorders
 10 <130> FILE REFERENCE: OMRF 161 CIP
 12 <140> CURRENT APPLICATION NUMBER: 09/500,904A
 13 <141> CURRENT FILING DATE: 2000-02-09
 15 <160> NUMBER OF SEQ ID NOS: 113
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
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 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
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 25 <223> OTHER INFORMATION: Description of Artificial Sequence: Epstein-Barr
 26 virus Nuclear Antigen-1 Protein
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 29 Pro Pro Pro Gly Arg Arg Pro
 30 1 5
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 8
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 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: Description of Artificial Sequence: Epstein-Barr
 40 virus Nuclear Antigen-1 Protein
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 44 1 5
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 50 <213> ORGANISM: Artificial Sequence
 52 <220> FEATURE:
 53 <223> OTHER INFORMATION: Description of Artificial Sequence: Epstein-Barr
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 58 1 5
 61 <210> SEQ ID NO: 4
 62 <211> LENGTH: 8
 63 <212> TYPE: PRT

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66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: autoantigen
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80 <223> OTHER INFORMATION: Description of Artificial Sequence: autoantigen
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84   1           5
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 8
89 <212> TYPE: PRT
90 <213> ORGANISM: Artificial Sequence
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93 <223> OTHER INFORMATION: Description of Artificial Sequence: autoantigen
95 <400> SEQUENCE: 6
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97   1           5
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101 <211> LENGTH: 24
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Peptide from
107     Epstein-Barr virus Nuclear Antigen-1
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111   1           5           10          15
113 Gly Ala Gly Ala Gly Ala Gly Ala
114           20
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119 <212> TYPE: PRT
120 <213> ORGANISM: Artificial Sequence
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123 <223> OTHER INFORMATION: Description of Artificial Sequence: autoantigen
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126 Pro Pro Pro Gly Met Arg Gly Pro
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130 <210> SEQ ID NO: 9
131 <211> LENGTH: 26
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence

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135 <220> FEATURE:
 136 <223> OTHER INFORMATION: Description of Artificial Sequence: a major antigenic epitope of Sm D
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 140 1 5 10 15
 142 Gly Arg Gly Arg Gly Gly Pro Arg Arg Arg
 143 20 25
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 147 <211> LENGTH: 9
 148 <212> TYPE: PRT
 149 <213> ORGANISM: Artificial Sequence
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 156 1 5
 159 <210> SEQ ID NO: 11
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 162 <213> ORGANISM: Artificial Sequence
 164 <220> FEATURE:
 165 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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 169 1 5
 172 <210> SEQ ID NO: 12
 173 <211> LENGTH: 7
 174 <212> TYPE: PRT
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 177 <220> FEATURE:
 178 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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 181 Lys Ile Gly Phe Pro His Ile
 182 1 5
 185 <210> SEQ ID NO: 13
 186 <211> LENGTH: 7
 187 <212> TYPE: PRT
 188 <213> ORGANISM: Artificial Sequence
 190 <220> FEATURE:
 191 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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 194 Ile Pro Arg Pro Leu Asp Tyr
 195 1 5
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 200 <212> TYPE: PRT
 201 <213> ORGANISM: Artificial Sequence
 203 <220> FEATURE:
 204 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage

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Input Set : A:\OM161CI1.txt

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208 1 5
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216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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220 Ile Leu Pro Pro Pro Gly Tyr
221 1 5
224 <210> SEQ ID NO: 16
225 <211> LENGTH: 7
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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234 1 5
237 <210> SEQ ID NO: 17
238 <211> LENGTH: 7
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
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246 Ala Leu Ile Gln Arg Pro Pro
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250 <210> SEQ ID NO: 18
251 <211> LENGTH: 7
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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260 1 5
263 <210> SEQ ID NO: 19
264 <211> LENGTH: 6
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
271 <400> SEQUENCE: 19
272 Ser Pro Pro Glu Leu Lys
273 1 5
276 <210> SEQ ID NO: 20

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278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
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282 <223> OTHER INFORMATION: Description of Artificial Sequence: Phage
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286   1           5
289 <210> SEQ ID NO: 21
290 <211> LENGTH: 18
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
297 <400> SEQUENCE: 21
298 ccagaggttaa gtggactt                               18
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307 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Description of Artificial Sequence: Probe
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327 <212> TYPE: PRT
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: Description of Artificial Sequence: Octapeptide
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334 <400> SEQUENCE: 24
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336   1           5           10           15
338 Arg Gly Arg Gly Arg Gly Arg Gly Gly Gly Arg Pro Gly Ala Pro Gly
339           20           25           30
345 <210> SEQ ID NO: 25
346 <211> LENGTH: 20
347 <212> TYPE: PRT
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:

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 Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 02/04/2002

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TIME: 12:44:39

Input Set : A:\OM161CI1.txt

Output Set: N:\CRF3\02042002\I500904A.raw

L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:1168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
L:1261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91